

DURAMOLD AIRCRAFT CORPORATION

MODELS: Duramold F-46A, 5 PCLM

T.C. NUMBER: 2-545

Engine	Ranger SGV-770-B5
Placard limits	Maximum, except takeoff 38.5 in. Hg., 2800 rpm (420 hp) Takeoff (one minute) 41.0 in. Hg., 2900 rpm (450 hp)
Propeller	Maximum permissible diameter 126 in.
Placard speeds	Level flight or climb - 205 mph Ind. Glide or dive - 250 mph Ind. Flaps extended - 117 mph Ind.
Fuel capacity	100 gallons (50 gallons in each wing) (+53.7)
Oil capacity	7.5 gallons (-23)
No. passengers	4 (one at +23, 3 at +70)
Baggage	121 lbs. (+102)
Weights	Empty use actual - Serial No. 5000 as originally certificated - 3173 lbs. Standard 4800 lbs.
C.G. limits	(+23.2) and (+33.0)
Spec. basis	Aeronautics Bulletin 7-1, Section 3
Serial Nos.	5000 and up eligible (See NOTE A)

EQUIPMENT:

(Datum is leading edge of root chord) (* Means net increase)

Class I:

101. Engine cowling		
102. Propeller - constant speed (Hamilton Standard, hub 2D30, blades 6101A)	165 lbs.	(-33)
103. Starter (Eclipse F141)	26 lbs.	(-28)
104. Battery (Reading 6AR9)	50 lbs.	(+71)
105. Oil cooler (United B No. U-31-70)	21 lbs.	(-73)
106. Generator (Ranger NA1)	18 lbs.	(-39.5)
107. 27 in. streamline wheels (Hayes 2701A) with 6-ply tires	122 lbs.	(+12.5)
108. 10.5 in. streamline tail wheel (Goodyear)	5 lbs.	(+274)
109. Wheel streamlines	11 lbs.	(+19)
110. Heater and ventilator	5 lbs.	(-28)

Class II:

200. Miscellaneous items as noted in approved weight and balance report		
201. Pressure fire extinguisher (Lux Model I)	16 lbs.	(-14)
202. Landing lights (Grimes ST-250)	9 lbs.	(+44)
203. Four flares (International Mark I - Model I)	25 lbs.	(+118)
204. Miscellaneous flight and engine instruments		
205. Cabin furnishings		
(a) Two buffets (one left, one right)	10 lbs.	(+98)
(b) Folding desk	2 lbs.	(+55)
(c) Divisional arm rest	7 lbs.	(+80)
206. Radio equipment		
(a) Transmitter (Lear UT4)	28 lbs.	(+59)
(b) Transmitter (Lear UT6)	28 lbs.	(+59)
(c) Receiver (Lear R3)	6 lbs.	(-3.5)
(d) Compass (Fairchild)	40 lbs.	(+70)
(e) Fixed antenna (transmitter)	2 lbs.	(+170)
(f) Fixed antenna (compass)	1 lb.	(+170)
(g) Motoreel	21 lbs.	(+71)
(h) Receiver (RCA AVR-7 series)		

- (i) Transmitter (RCA AVT-7, -12, -12A)
- (j) Dynamotor (RCA)
- (k) Compass (RCA)

Class III:

301. Oil cooler (United B No. U-31-80)

- NOTE A. All airplanes certificated must satisfactorily pass:
- (a) An inspection for workmanship, materials and conformity before any covering, metal priming or final finish is applied. All woodwork may be varnished.
 - (b) A final inspection of the completed airplane.
 - (c) Check of flight characteristics.
- NOTE 1. Eligible for export to all countries except Canada, Great Britain, and Australia (10/31/39).